

Surguchev, G. D.

Quantitative Identification and Investigation of  
the Dynamics of Decarburization by Means of a  
Digital Computer.

IZV. VUZ CHERN MET., 1973, No. 1, pp. 24-27  
BISI 11429

Sinitsyn, V.G. et al

Theoretical Investigation of the Process of  
Asymmetric Rolling.  
IZV. VUZ. CHLRN. MET., 1973, No.1, pp.69-72.  
BTSI 11426

Glukhov, V.V. & Semeka A.V.

Mathematical Formalization and Algorithm for the  
Calculation of Roll Stocks of Section Rolling Plant

IZV VUZ CHERN. MET. 1973, (1) pp 78-81

BISI 11425

July 1973

Polukhin, P.I. et al

Investigation of the Deformed State of a  
Stretched Specimen by Means of the Moire Me-  
thod.

IZV. VUZ. CHERN. MET., 1973, No.1, pp.108-111.  
BISI 11424

Kalashnikov, Yu. V.

Investigation of the Round-Square System Metal  
Rolling Process in 4-High Passes  
IZV. VUZ CHERN. MET., 1973, No. 1, pp 116-118  
BISI 11423

Zaleskii, V.I.

Glass Coatings Used in the Hot Pressing of Kh  
18N10T Steel.

IZV. VUZ. CHERN. MET., 1973, No.1, pp.122-125.  
TISI 11422

Gol'dfarb, E. M.

Optimisation of the Heating of Fine Bodies  
During Heat Exchange by Radiation  
IZV. VUZ CHERN. MET., 1973, No. 1, pp 159-162  
BISI 11421

Skrovtssov, A.A. & Vershinin, P.I.

Solidification and Cooling of Flat Castings in  
Chill Moulds with Forced Cooling

MM IZV VUZ CHERN. MET. 1973, (1) pp 169-172

BISI 11420

July 1973

Tseshmatii, G.I.

Linear Programming Used for the Volume-Calendar  
Planning of the Running of a Sheet Mill Rep. 1.  
IZV. VUZ. CHIRN. MET., 1973, No.1, pp.183-187.  
SIST II419

Zhilov, N.L. et al

Slag Conditions in Blast-Furnace Operation on  
Pellets from the Sokolovka-Sarbai Mining-Bene-  
ficiation Combine (SSGOK)  
IZV. VUZ. CHMFR. MET., 1973, No.2, pp.19-24.  
BISI 11475

Lobanov, V.I.

Gas Combustion in a Packed Bed of Iron-Ore  
Pellets - Communication 2.  
IZV. VUZ CHERN. MET., 1973, No. 2, pp.25-27.  
FBISI 11471

Levin, S.L. et al

Removal of the Products of Deoxidation when  
Melting G1 3L High Manganese Steel.  
IZV. VUZ CHERN. MET., 1973, No. 2, pp.49-50.  
BISI 11472

Kamardin, V.A. et al

Thermodynamics of the Reduction of Aluminium in  
the Refining of Steel with Basic Alumina-Con-  
taining Slags.

IZV. VUZ. CHERN. MET., 1973, No.2, pp.63-67.  
SISI 11473

Pozdeev, A.A. et al

Investigation of the Temperature Field of an  
Ingot During its Transfer to the Mill.  
IZV. VUZ CHERN. MET., 1973, No.2, pp.82-85.  
BISI 11474

Murav'ev, E.A et al

Approximate Experimental and Analytical Determination of the Residual Stresses in Completely Quenched Rails.

IZV. VUZ CHERN. MET., 1973, No.2, pp.103-108.  
BISI 11476

Bunin, K.P. et al

Formation of Platelet-Rod Type Carbide-Austenite Colonies During the Saturation of an Fe-W-Cr-V-Mo Alloy with Carbon.

IZV. VUZ CHLRN. MET., 1973, No.2, pp.123-126.

BISI 11477

Repina, L.D.

Selection of Conditions for the Surface Strengthening of Case-Hardened Steels.  
IZV. VUZ CHERN. MET., 1973, No.2, 127-129.  
\*BISI 11478

Fel'dman, B. A.

Mechanism of the Formation of Thermal Cracks in High Chromium Iron.

ISV, VUZ, CHERN, MET., 1973, No. 2, pp. 134-138  
BISI 11479

Teplititskii, E. B.

Thermodynamics of Deoxidizing Steel with  
Zirconium.

IZV. VUZ CHERN MET., 1973, No. 3, pp 5-7  
BISI 11519

Rudakov, G.A.

An Investigation of the Mechanism of the Oxidation of Carbon in Large Open Hearth Furnace Baths.

IZV. VUZ CHERN. MET., 1973, No.3, pp.37-40.  
BISI 11518

Klyacharev, V.E.

The Behaviour of Gases During the Crystallization of Kh18N9 Steel Ingot Containing Titanium.

IZV. VUZ CHLRN. MET., 1973, No.3, pp.43-46.  
BISI 11521

Zhadan, V. T.

Investigation of the Deformation Heat in 50KhGA Steel  
IZV. VUZ CHERN. MET., 1973, No. 3, pp. 66-69  
BISI 11522

Zhadan, V.T. et al

Investigation of the Deformation Heat in 50KhGA  
Steel.

IZV. VUZ CHERN. MET., 1973, No.3, pp.96-98.

\*BISI 11522

Gorelik, V. S.

Investigation of the Accuracy of Tempac-Steel-Tompac  
Bimetallic Strip Rolling  
IZV. VUZ CHERN. MET., 1973, No. 3, pp. 97-101  
BISI 11523

Bernshtain, M.L.

Investigation of Certain Physico-Mechanical  
Properties and the Phase Composition of Cast  
Iron Strengthened by Electro-Mechanical Treatment  
IZV. VUZ CHERN. MET., 1973, No. 3, pp.138-142.  
BISI 11520

Krechmer, V.G.

Effect of the Austenitizing on the Hardenability High-Strength 40KhGSTF Grade Steel.  
IZV. VUZ. CHERN. MET., 1973, No.3, pp.155-157.  
BISI 11524

Kaganov, V. Yu.

Compositions of Pulverised Metallic Samples  
Automatically Controlled by the Thermal e.m.f. Method.  
IZV. VUZ. CHERN. MET., 1973, No. 3, pp. 174-176  
BII 11525

Yur'ev, B.P. et al

Calculating Heat Exchange in Bed of Fluxed  
Pellets During Firing and the Firing-Zone Pa-  
rameters.

IZV. VUZ CHERN MET., 1973, No.4, pp.29-32.  
BISI 11628

Dubrovskii, S.A. et al

The Interconnection Between the Ore and Quise  
scent Boil Periods Investigated by Component  
and Factor Analyses.

IZV. VUZ CHERN MET., 1973, No.4, pp.51-56.  
BISI 11623

Sviridenko, S. F.

The Kinetics of the Oxidation of Phosphorus in a  
Molten Steel Bath During Reaction With the Slag  
IZV. VUZ CHERN. MET., 1973, no. 4, pp 62-64  
BISI 11621

[REDACTED]  
Slavnov, E.V.

Simulation of the Discharge Phenomenon in Wire  
Drawing.

IZV. VUZ. CHERN. MET., 1973, No. 4, pp. 85-88.  
BISI 11622

Chernenko, A.G. et al

Lateral Boundaries of the Instantaneous Deformation Zone when Col-Rolling Tubes.  
IZV. VUZ CHERN. MET., 1973, No.4, pp.89-91.  
BISI 11620

Moskvin, V.M.

Transition Processes and Optimum Acceleration  
Deceleration Control on a Continuous Cold Rol-  
ling Mill.

IZV. VUZ CHERN. MET., 1973, No.4, pp.96-101.  
BISI 11619

Yalovoi, N. I. et al

Temperature Changes in Semi-Finished Rolled  
Products During Rolling in a 1700 Mill.  
IZV. VUZ. CHERN. MET., 1973, No.4, pp.109-112  
BISI 11618

Nikolayev, V.A. et al

Apparatus and Procedure of Determination of  
Power and Force Parameters During Rolling on  
a Three-Stand Test Mill.  
IZV. VUZ CHERN. MET., 1973, No.4, pp.123-126.  
BISI 11617

Gavrilin, I.V.

Structural Relationships of Liquid and Solid  
Metals.

IZV. VUZ CHERN. MET., 1973, No.4, pp.149-152.  
BISI 11624

Kleiner, M.K. et al

Local Flows of Heat in an Enclosed Space with  
a Variable Wall Temperature.  
IZV. VUZ. CHERN. MET., 1973, No.4, pp.153-157.  
BISI 11627

Gordon, M.M. et al

Problems of Unsteady Thermal Conductivity in  
Massive Plates Solved with an Analog Computer  
IZV. VUZ. CHERN MET., 1973, No.4, pp.158-162.  
BISI 11625

Tsymbal, V.P. et al

Analysis of Error Structure in Mathematical  
Models of an Open Hearth by Division into Com-  
puters.

IZV. VUZ CHERN. MET., 1973, No. 4, pp.167-170.

FBISI 11631

Safromov, V.I.

Ways of Increasing the Lives of the Screw Pairs  
in the Screw-Down Devices of the Reversing  
Rougher Mills.

IZV. VUZ. CHERN. MET., 1973, No.4, pp.171-176.  
6131 11015

Zaisev, Kh. P. et al

The Economic Effectiveness of Using of Oxidized Side Recovery Ferrous Quartzites.  
IZV. VUZ. CHERN. MET., 1973, No.4, pp.179-183.  
BISI 11626

Okhotskii, V.B. et al

Study of the Process of Carbon Burn-Off in  
the O. H. Furnace by Means of Cinematography.  
IZV. VUZ. CHERN. MET., 1973, No.5, pp.24-27.  
BISI 11702

Vymetal, D. et al

Calculations of the Dynamic Characteristics  
of the Upper Part of the Blast Furnaces.  
IZV. VUZ. CHERN. MET., 1973, No.5, pp.32-34.  
BISI 11703

Notych, A.G. et al

Optimization of dust Extraction on the Slag  
Pockets of Open-Hearth Furnaces.

IZV. VUZ CHERN. MET., 1973, No.5, pp.39-42.

FBISI 11704

Bolunov, V. et al

Compensation of the Effect of Wobble of Mill  
Rolls in Regulating Sheet Thickness.

IZV. VUZ. CHERN. MET., 1973, No.5, pp.61-62.

BISI 11705

Zhelezov, Yu.D. et al

Calculation of the Rolling Forces During Hot  
Rolling.

IZV. VUZ CHERN. MET., 1973, No.5, pp.63-67.  
FBISI 11706

Kokovikhin, Yu. I.

Calculation of a Four-Roll Round-Square System. Report 1.

IZV. VUZ CHERN. MET., 1973, No.5, pp.68-71.

FBISI 11707

Potoshuev, M.N.

Spread Due to Reduction Inhomogeneity During  
Rolling.

IZV. VUZ. CHERN. MET., 1973, No.5, pp.81-83.  
EISI 11708

Plichko, N.P. et al

Calculation of the Resistance to Deformation  
of Steel in Hot-Rolling.

IZV. VUZ. CHERN. MET., 1973, No.5, pp.98-101.  
BTSI 11709

Chekmarev, A.P. et al

Investigation of the Interstand Deformation  
During the Rolling in Light Section Mills.  
IZV. VUZ. CHERN. MET., 1973, No.5, pp.102-105.  
EISI 11710

Filippov, E.S.

Determination of the Heats of Phase Transformations and Mixing in Liquid Metals and Alloys from the Light Radiation.

IZV. VUZ. CHERN. MET., 1973, No.5, pp.112-118.  
BIST 11711

Kidin, I.N. et al

Diffusion Chromising of 08kp Steel During Heating in Paste.

IZV. VUZ CHERN. MET., 1973, No.5, pp.133-136.

FBISI 11712

Kadirov, M.K.

Pulsation of a Gas Bubble in Liquid Steel Under Vacuum.

IZV. VUZ. CHERN. MET., 1973, No.5, pp.166-169.  
BISI 11713

Glinko, M.A. et al

Evaluation of Average Significance of Operating  
Parameters in OH Furnaces Finishing Periods.  
IZV. VUZ CHERN. MET., 1973, No.5, pp.178-180.  
BISI 11725

Shtets, K.A.

Assessment of the Degree of Rhythm in Open  
Hearth Furnace Operation.  
IZV. VUZ CHERN. MET., 1973, No.5, pp.186-188.  
BISI 11726

Geineman, A.V.

Thermophysical Characteristics of the Boiling  
Open-Hearth Bath.

IZVEST. VUZ. CHERN. MET., 1973, No.6, pp.29-32  
BISI 11786

Demidov, K.N.

The Reaction Between Solid Ferrosilicon and  
Molten Slag.  
IZVEST. VUZ CHERN. MET., 1973, No.6, pp.37-40.  
BISI 11785

Kazakov, A.A. et al

Optimum Control in Heating Large Dies.  
IZV. VUZ. CHERN. MET., 1973, No.6, pp.67-71.  
BISI 11787

Prokop'ev, A.I.

Spread and Shape of the Web in H-Beam Passes.  
IZVEST. VUZ CHERN. MET., 1973, N.6, pp.75-80.  
BISI II788

Lozinskii, Yu. M.

The use of an exponential relationship for the selection and control of tempering procedures and the assessment of the heat resistance of steels.

IZV. VUZ CHERN. MET., 1973, No.6, pp.84-88.  
BISI 11784

Mashkov, A.K.

Special Features of the Breakdown of High-Strength Cast Iron During Thermal Fatigue.  
IZV. VUZ. ChERh. MET. 1973, No.6, pp.114-117.  
BISI 11781

Rybalko, L.G.

Use of the method of group inclusion of the arguments for the development of a model of the oxygen-converter process.

IZVEST. VUZ CHERN MET., k1973, No.6, pp.146-48  
\*BISI 11779

Levin, M.Z.

Torques from Geometrical Slip in Straightening  
Rolled Sections.

IZVEST. VUZ CHERN. MET., 1973, No.6, pp.162-65.  
BISI 11780

Sveshkov, Yu. V. et al

Surface properties of Fe-Si melts.

IZV. VUZ. CHERN MET., 1973, No. 7, pp. 15-17.

X BISI 11879

SVESHKOV, YU. V. et al  
//IZV. VUZ CHERN MET.//  
---/1973, V----, N0007  
Surface properties of Fe-Si melts  
pp 15-17 BISI 11879#

Kostikov, V. I.

The strength of pyrographite in contact with  
molten alkali metals.

IZV. VUZ. CHERN. MET., 1973, No. 7, pp. 18-20.

BISI 11880

<sup>MAN</sup>  
Vegash, E. F. and Lekozza, M. I.

Special Features of the Behaviour of the Melt  
During the Sintering of the Sintering Mixes  
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 25-28  
BISI 11881

Kolganov, G. S., et al.

Mass Transfer in the Converter Baths.  
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 36-40  
BISI 11882

Kumanin, I. B., et al.

Ceramic Anti-Burn-On Coatings for Steel Castings  
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 53-56

\* BISI 11883

Pavlov, I.M. et al

Variation in the Contour and Distribution of  
Tension Stock During Cold-Rolling.  
IZV. VUZ. CHERN. MET., 1973, No.7, pp.75-78.  
SISI 11884

Skorokhodev, N. E., et al.

Use of the Optimum Rating Method for the Setting  
of a Cold Skelp rolling Mill

IZV. VUZ. CHERN. MET., 1973, No. 7, pp 85-87

BISI 11885

Brovman, M. Ya., et al.

Deformation During the Drafting of Sheets in  
Vertical Rolls  
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 92-96  
BISI 11886

Kokovikhine, Yu. I.

Calculating a Four High Round-Square Roll System. Report 2.

IZV. VUZ. CHERN. MET. 1973, No.7, pp.106-110.  
BISI 11887

Kaibyshev, O. A.

The Superplasticity in Technical Nickel  
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 119-121  
BISI 11888

F ilippov, E. S.

Theoretical Calculation of Hydrogen Solubility in  
Solid and Liquid Metals

IZV. VUZ. CHERN. MET., 1973, No. 7, pp 122-128

BISI 11889

Grinberg, B.G. et al

Electron Probe Micro-Analysis on the Diffusion  
Layer in Titanium-Steel Clad Metal.  
IZV. VUZ. CHERN. MET., 1973, No.7, pp.133-135.  
BTSI 11890

Zhadin, V. T.

Investigation of the Stress Relieving of 50KhGa

Spring Steel

IZV. VUZ. CHERN. MET., 1973, No. 7, pp 144-145

X BISI 11891

Kidin, I. N., et al.

Chromizing Iron-Based Cermets with Electric Heating  
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 151-154  
BISI 11892

Kumanin, I. B. et al.

Effects of Certain Technological Factors on the  
Crumbling of Moulding Sand.

IZV. VUZ. CHERN. MET., 1973, No. 7, pp ~~166-169~~

\* BISI 11893

162-165

Lyakhovich, L. S., et al.

Boriding High-Strength Cast Iron  
IZV. VUZ. CHERN. MET., 1973, No. 7, pp. [REDACTED]  
BISI 11894

166-169

Zen'kovskii, A.G. et al

Research into Semi-Limited Jets Against Permeable Surfaces.

IZV. VUZ. CHERN. MET., 1973, No.7, pp.170-173.  
BISI 11895

Roskik, E. A.

Heating Billets In Straight-Through Furnace  
With Prolonged Mill Shutdowns  
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 176-178  
BISI 11896

Guglya, V.G.

Pyroelectric Materials Used for Analysing small  
Concentrations of Carbon Monoxide.  
IZV. VUZ. CHERN. MET., 1973, No.7, pp.179-181.  
BISI 11897

Petrushevskii, M.S.

Evaluating the Surface Energy of Binary Solution with Slight Deviations from the Law of Raoult.

IZV. VUZ CHERN. MET., 1973, No.8, pp.9-14.  
EISI 11967

Korneeva, A.N. et al

Structural Changes of Interference-Coloured  
Oxide Films on Iron, Nickel and Copper During  
their Reduction by Hydrogen and Carbon Mono-  
xide.

IZV. VUZ CHERN. MET., 1973, No.8, pp.21-26.  
BISI 11968

Korschikov  
Korschikov, G.V.

Kinetics of the Pelletization Process for Fine-  
ly-Ground KMA Concentrate on a Pelletizing Disc.  
IZV. VUZ CHERN. MET., 1973, No.8, pp.30-32.  
BISI 11969

Grankovskii, V.I. et al

Oxidizing Capacity of an Open Hearth Furnace  
with Oxygen Injection of the Bath.

IZV. VUZ CHERN. MET., 1973, No.8, pp.35-40.  
BISI 11970

Medzhibozhskii, M. Ya. et al

Approximate Process Modelling of the Assimilation  
of Lime by the Slag Process Phase.

IZV. VUZ CHERN. MET., 1973, No.8, pp.41-45.

BISI 11971

Gasik, M.I. et al

The Microstructure of Commercial Silicomangane  
se.

IZV. VUZ CHERN. MET., 1973, No.8, pp.63-66.  
BISI 11972

Vigdorchik, S.Yu.

Calculation of the Final Deformation and Mathematical Simulation of the Kinetics in the Unsteady State Processes of the Treatment of Metals by Pressure.

IZV. VUZ CHERN. MET., 1973, No.8, pp.80-83.  
BISI 11973

Moskalenko, Yu. N.

Alteration in Coercive Force in the First Stage  
of the Tempering of Quenched Fe-Cr-N and Fe-Cr  
-C System Alloys.

IZV. VUZ CHERN. MET., 1973, No.8, pp.109-111.  
BISI 11974

Mints, R.I. et al

Deformation Structure in a Metallic Fragment of  
Lunar Substance.  
IZV. VUZ CHERN. MET., 1973, NO.8, pp.112-114.  
BISI 11975

Borisov, L.I. et al

Investigation of the Hot-Rolling Texture to  
Transformer Steel.

IZV. VUZ CHERN. MET., 1973, No. 8, pp.125-128.  
BISI 11976

Matseev, Yu.B. et al

Results of Laboratory Research into the Wear  
Resistance of 110G13L Steel Alloyed with Vana-  
dium Inoculated with Titanium and Explosion-  
Hardened.

IZV. VUZ CHERN. MET., 1973, No.8, pp.129-132  
BISI 11977

Gavrilin, I.V. et al.

Nomogram for Determining the Optimum Amount of  
Micro-Coolers for Suspension Pouring.  
IZV. VUZ CHERN. MET., 1973, No.8, pp.139-141.  
BISI 11978

Evtushenko, V.F. et al

Formalization of Experience in Open Hearth  
Melt Charging.

IZV. VUZ CHLRN. MET., 1973, No.8, pp.171-174.  
BISI 11979

Egrov, V.F. et al

Meaning the Loads on the Drives of Press Smears.  
Report 1.

IZV. VUZ CIERN. MET., 1973, No.8, pp.179-182.  
BISI 11980